



M Zamco

RECEIVED

DATE: July 2, 1991 Date of Inspection: July 1, 1991
TO: Sy Levine Last Insp. Date: No previous insp.
FROM: Joseph Kotas Region/District: 104
Facility: The Sherwin-Williams Co. I.D. #: 031 600 D84
Automotive Div. Tech. Center.
Address: 10909 Cottage Grove Avenue, Chicago, IL 60628
Contact/Title: Sam Blais/Manager Phone: 312/821-2201

1.0 Product-Process Description

The facility is a research and development center for Sherwin-Williams paints. There are several laboratories for developing and testing new products. The labs are equipped with a total of 54 enclosed hoods for venting solvents, monomers and polymers when charging small laboratory flasks with chemicals. These flasks are then closed and condensers attached approximating conditions of a resin kettle. There are no controls for VOCs. A large fan services 48 hoods and another services the remaining 6. Emissions from the hoods are negligible.

Four water wash spray booths are located at the site. These are used to apply the product to small panels before they are tested for adhesion, gloss, flexibility or color matching. There are no controls for VOCs on these. Paint usage here is measured in pints.

Four boilers are used for heating the building. There are two 150 HP and two 250 HP gas/oil boilers. One 10,000 gal #2 F.O. Underground storage tank (UST) is also at the site to service the boilers when fuel oil is necessary.

2.0 Purpose of Inspection

The facility was inspected because there were no records in the EIS nor any permits associated with the facility which is a large building with several smoke stacks.

2.1 Compliance History

Nothing in files.

EPA Region 5 Records Ctr.



355882

2.2 Observations-Discussion Related to Inspection

7/1/91 Inspection by J. Kotas

An inspection was conducted at this site in order to determine if there were any permit requirements since four smoke stacks were observed at the site and no record exists in the Agency's files for the facility.

Sam Blais, Manager Facilities Administration, provided information and a tour of operations.

Four gas/oil fired boilers were observed. These are rated at 250, 250, 150 150 HP (11.25, 11.25, 6.7, 6.7 MBtu/hr).

A 10,000 gal underground storage tank containing #2 fuel oil is used for storage of back-up fuel. Natural gas is used primarily.

The laboratories as described in 1.0 were observed.

Hoods are used to vent the emissions caused by charging chemicals into flasks while developing paint formulations. There are 54 hoods altogether. Mr. Blais stated that the flasks are closed and condensers installed so as to keep the formulations as controlled as possible. Emissions on this scale are negligible.

Four paint spray booths were observed. These are used to paint test panels. Paint usage could not be given at the time, but was said to be less than 5,000 gal/yr.

Facility appears to require permits for four gas/oil boilers and one 10,000 #2 fuel oil underground storage tank.

They are exempt from permit requirements for the laboratory equipment used exclusively for chemical or physical analysis (per 201.146;) and for their painting operations (under 5,000 gal/yr).

2.3 Summary of Meetings

None held.

2.4 Telephone Call Reports

None made.

3.0 Emission Source Identification

[Four gas/oil Fired Boilers]

3.01 Applicable Regulation/Effective Date

Section 216.121/February 6, 1988

3.02 Process Flow Diagram

N/A

4.0 Permit Status

No record exists for any permits associated with the facility.

4.1 Standard Conditions

N/A

4.2 Special Conditions

N/A

4.3 New Source Review

N/A

5.0 Fugitive Dust Program

No fugitive sources.

6.0 Opacity Observations

No visible emissions.

6.1 Visible Emission Observations

No visible emissions.

7.0 Emission Calculations

Source 3.0

Typically, natural gas is the only fuel burned

Using the conversion factor

1 BHP = 45,000 Btu/hr

150 HP = 6.7 MBtu/hr

250 HP = 11.25 MBtu/hr

Total capacity is 35.9 MBtu/hr

Pollutant	Actual (lb/hr)
TSP	0.18
NO _x	3.59
CO	0.12

7.1 Part 215 Organic Material Emission Calculations and Standards

Organic emissions from laboratory operations (see 2.2) and four paint spray booths.

8.0 Equipment Standards

N/A

9.0 NSPS

N/A

10.0 NESHAP

N/A

11.0 Stack Tests

None conducted.

11.1 Total Annual Plant Emissions (T/Y) Various Pollutants

<u>Pollutant</u>	<u>Actual (T/Y)</u>
TSP	0.18
NO _x	3.59
CO	0.12

12.0 Section 9(a) Factors

No complaints on file.

13.0 Multi-Media Factors

N/A

13.1 Chemical Safety

N/A

14.0 Attainment/Non-Attainment/Geographical Description

Located in an industrial area designated non-attainment for particulates and ozone.

2961L

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The Sherwin Williams Co.
I.D. #031 600 D84
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15.0 Findings/Conclusions/Recommendations

7/1/91 Findings by J. Kotas

Facility is in violation of Section 201.144 for operating five sources without an operating permit. These include (2) two 6.7 and two (2) 11.25 MBtu/hr boilers and (1) 10,000 gal #2 fuel oil underground storage tank.

16.0 Facility Status

<input type="checkbox"/> Workplan	<input type="checkbox"/> (A) Task Force	<input type="checkbox"/> (R) Random/Non-Traditional
<input type="checkbox"/> Quarterly Report	<input type="checkbox"/> (B) On Program	<input type="checkbox"/> (S) HC Chicago
<input type="checkbox"/> MIR	<input type="checkbox"/> (C) Violator	<input type="checkbox"/> (T) TSP Chicago
<input checked="" type="checkbox"/> Other	<input type="checkbox"/> (D) NESHAPS	<input type="checkbox"/> (U) A-1
(Author	<input type="checkbox"/> (F) NSPS	<input type="checkbox"/> (V) B Facility
initiated)	<input type="checkbox"/> (I) A-2	<input type="checkbox"/> (W) Multi-Media Problems
	<input checked="" type="checkbox"/> (J) Special Request	<input type="checkbox"/> (X) Service Station
	<input type="checkbox"/> (M) Asbestos Demolition	<input type="checkbox"/> (Y) Drive By
	<input type="checkbox"/> (N) Complaints	<input type="checkbox"/> (Z) Petrochemical Plants
<input type="checkbox"/> Emission Violation	<input type="checkbox"/> CIL	<input checked="" type="checkbox"/> Form 177
<input checked="" type="checkbox"/> Permit Violation	<input checked="" type="checkbox"/> PVA	<input type="checkbox"/> EIS Checked
<input type="checkbox"/> Permit Condition	<input type="checkbox"/> To MIR	<input type="checkbox"/> EIS Coded *
Violation	<input type="checkbox"/> To Quarterly Report	<input type="checkbox"/> Malfunction
<input type="checkbox"/> NO VIOLATION	<input type="checkbox"/> Multi-Media Issue Possible	<input type="checkbox"/> Copy to Facility
<input type="checkbox"/> Flag File	<input type="checkbox"/> Land <input type="checkbox"/> Noise <input type="checkbox"/> Water	<input type="checkbox"/> Frequency Change

*Upon receipt of permit application.

JK:dfa:2961L

cc: M. Zamco
File

INSPECTION MEMORANDUM
FOR
PERMIT VIOLATION(S) ALONE

DATE: July 12, 1991

(Please use reverse side
if more room is needed)

TO: THERESA PELLA - PVA/FOS Coordinator

Corporation Name and Mailing Address: Site Location (if different):

The Sherwin-Williams Corp.
Automotive Division Technical Center
10909 Cottage Grove
Chicago IL 60629
ID# 031600 D94

Contact/Title Sam Blais, Mgr. Facilities Administration
Phone (312) 821-2201

Source(s) in violation and type of emissions (specified air contaminant):

(2) 6.7 MBtu/hr gas/oil boilers
(2) 11.25 " "
(1) 10,000 gal Underground storage tank

Violation (Circle all applicable):

201.142

201.143

201.144

Length of time out of compliance always

Please circle appropriate facility description:

Major: A-1 A-2 NSPS NESHAP PSD

Minor: B

Please circle appropriate source description:

Major: A-1 A-2 NSPS NESHAP PSD

Minor: B

Please indicate appropriate area description:

Attainment Non-attainment for O₃ TSP
(pollutant)

Previous violations (specify if permit alone):

none

Additional comments if necessary:

Inspector: J. Kotas

Inspection Date 7/1/91

Regional Manager/

Unit Supervisor: _____

(Signature)

Date _____